P...ENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference PC3-160	FOR FURTHER ACTION	See item 4 below	
International application No. PCT/US2005/003138	International filing date (day/month/year) 28 January 2005 (28.01.2005)	Priority date (day/month/year) 30 January 2004 (30.01.2004)	
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237			
Applicant GREAT LAKES CHEMICAL CORPORATION			

1.	This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a).		
2.	This REPORT consists of a total In the attached sheets, any refere to the international preliminary of the control of the con	ence to the written opinion of	the International Searching Authority should be read as a reference
3.	. This report contains indications relating to the following items:		
	Box No. I	Basis of the report	
	Box No. II	Priority	
	Box No. III	Non-establishment of opi applicability	nion with regard to novelty, inventive step and industrial
	Box No. IV	Lack of unity of invention	1
	Box No. V	Reasoned statement under applicability; citations and	r Article 35(2) with regard to novelty, inventive step or industrial dexplanations supporting such statement
	Box No. VI	Certain documents cited	
	Box No. VII	Certain defects in the inte	rnational application
	Box No. VIII	Certain observations on the	ne international application
4.	The International Bureau will conot, except where the applicant that (Rule 44bis .2).	mmunicate this report to des nakes an express request und	ignated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but ler Article 23(2), before the expiration of 30 months from the priority
			Date of issuance of this report 31 July 2006 (31.07.2006)
	The International Bure		Authorized officer
	34, chemin des Colombettes 1211 Geneva 20, Switzerland Nora Lindner		Nora Lindner

e-mail: pt02@wipo.int

Facsimile No. +41 22 338 82 70

Form PCT/IB/373 (January 2004)

EV979440200

PATENT COOPERATION TREATY

INTERNATIONAL SEARCHING AUTHORITY				
То:		•	PCT	
ROBERT C. HYTA WELLS ST. JOHN, P.S.				101
601 WEST FIRST STREET, SI	UITE 130	0	WR	ITTEN OPINION OF THE
SPOKANE, WA 99201-3828			INTERNATIO	ONAL SEARCHING AUTHORITY
			(PCT Rule 43bis.1)	
			Date of mailing (day/month/year) 12 AUG 2005	
Applicant's or agent's file refer	ence		FOR FURTHER ACTION See paragraph 2 below	
PC03-160				
International application No.		International filing date (day/month/year)	Priority date (day/month/year)
PCT/US05/03138		28 January 2005 (28.01.2	005)	30 January 2004 (30.01.2004)
International Patent Classificati				
IPC(7): C11D 3/37; C07C 17/0	0, 19/08, 2	21/18, 22/08 and US Cl.: 51	10/475, 535; 570/123	3, 125, 126, 127, 138
Applicant				
PCBU SERVICES, INC.				
1. This opinion contains indic	cations rela	ating to the following items	: :	
Box No. I B	asis of the	opinion		
Box No. II Pi	riority			
Box No. III Non-establishment of opinion with reg		ard to novelty, inver	ntive step and industrial applicability	
Box No. IV Lack of unity of invention				
Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
Box No. VI Certain documents cited				
Box No. VII Certain defects in the international app		lication		
Box No. VIII Certain observations on the internation		al application		
2. FURTHER ACTION				
If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.				
If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.				
For further options, see Form PCT/ISA/220.				
3. For further details, see notes to Form PCT/ISA/220.				
Name and mailing address of th	e ISA/ IIS	<u> </u>	Authorized office	
Name and mailing address of the ISA/ US Mail Stop PCT, Attn: ISA/US		Brian P. Mruk	/full/dla	
Commissioner for Patents P.O. Box 1450			Dian I. Wilde	v J VVW J
Alexandria, Virginia 22313-1450		Telephone No. (5	71) 272-1700	

Facsimile No. (703) 305-3230
Form PCT/ISA/237 (cover sheet) (January 2004)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US05/03138

Box No	o. I Basis of this opinion	
1. With a	regard to the language, this opinion has been established on the basis of the international application in the language in which it iled, unless otherwise indicated under this item.	it
	This opinion has been established on the basis of a translation from the original language into the following language, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).	
2. With a	regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed tion, this opinion has been established on the basis of:	
a.	type of material	
	a sequence listing	
	table(s) related to the sequence listing	
b.	format of material	
	in written format	
	in computer readable form	
c.	time of filing/furnishing	
	contained in international application as filed.	
	filed together with the international application in computer readable form.	
	furnished subsequently to this Authority for the purposes of search.	
3.	In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.	
4. Additi	ional comments:	

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US05/03138

Box No. V Reasoned statement under Rule applicability; citations and expl	e 43 bis.1(a)(i) with regard to novelty, inventive step anations supporting such statement	or industrial
1. Statement		
Novelty (N)	Claims Please See Continuation Sheet	YES
1.0.02.5 (1.1)	Claims Please See Continuation Sheet	NO
Inventive step (IS)	Claims Please See Continuation Sheet	YES
	Claims Please See Continuation Sheet	NO
Industrial applicability (IA)	Claims Please See Continuation Sheet	YES
	Claims Please See Continuation Sheet	NO
2. Citations and explanations:		
Please See Continuation Sheet		
•		
		4.54
		•

Form PCT/ISA/237 (Box No. V) (January 2004)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US05/03138

INTERNATIONAL SEARCHING AUTHORITY
 Supplemental Box In case the space in any of the preceding boxes is not sufficient.
V.1. Reasoned Statements: The opinion as to Novelty was positive (Yes)with respect to claims 10-11, 13-19, 22-23, 26-29, 32-33, 52-53, 63-64 The opinion as to Novelty was negative (No) with respect to claims 1-9, 12, 20-21, 24-25, 30-31, 34-51, 54-62 The opinion as to Inventive Step was positive (Yes)with respect to claims 10-11, 13-19, 22-23, 26-29, 32-33, 52-53, 63-64 The opinion as to Inventive Step was negative(NO) with respect to claims 1-9, 12, 20-21, 24-25, 30-31, 34-51, 54-62 The opinion as to Industrial Applicability was positive (YES) with respect to claims 1-64 The opinion as to Industrial Applicability was negative(NO) with respect to claims NONE
V. 2. Citations and Explanations:
Claims 1-9, 12, 20-21, 24-25, 34-51 and 54-62 lack novelty under PCT Article 33(2) as being anticipated by Knell et al, U.S. Patent No. 3,843,735.
Knell et al, U.S. Patent No. 3,843,735, discloses 3-perfluoroalkyl-1 propenes of the formula R ₁ CH ₂ CH=CH ₂ (see abstract and col. 1, lines 1-5). Specifically, note preparation Example 8, which discloses a compound that meets the requirements of the instant invention. Therefore, instant claims 1-9, 12, 20-21, 24-25, 34-51 and 54-62 are anticipated by Knell et al, U.S. Patent No. 3,843,735.
Claims 1-5, 12, 30-31, 36-48 and 54-59 lack novelty under PCT Article 33(2) as being anticipated by Krespan et al, U.S. Patent No. 5,504,265.
Krespan et al, U.S. Patent No. 5,504,265, discloses a saturated linear polyfluorohydrocarbon for use in cleaning compositions (see abstract). It is further taught by Krespan et al that suitable polyfluorohydrocarbons include those listed in col. 3, lines 20-67, and that the polyfluorohydrocarbons contain olefins and metal complexes (see col. 7, line 56-col. 8, line 5), per the requirements of the instant invention. Therefore, instant claims 1-5, 12, 30-31, 36-48 and 54-59 are anticipated by Krespan et al, U.S. Patent No. 5,504,265
Claims 10-11, 13-19, 22-23, 26-29, 32-33, 52-53 and 63-64 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest the specific R _f -surfactant compositions required in claims 10-11, 13-19, 22-23, 26-29, 32-33, 52-53 and 63-64.

Claims 1-64 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.